(b) if so, the salient features of the proposed policy?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) and (b) An Energy Policy Committee has been set up in the Planning Commission to recommend an outline of the energy policy for the next 15-20 years. The members include Secretaries to the Government of India in the Ministries of Power, Coal, Petroleum & Natural Gas, Non-Conventional Energy Sources, Environment and Forests and Department of Atomic Energy. Experts from Indira Gandhi Institute of Development Research, Tata Energy Research Institute etc. are also associated in the Committee.

T and D losses

195. SHRI P. PRABHAKAR REDDY: Will the Minister of POWER be pleased to state:

(a) whether it is a fact that despite undertaking reforms in the Power Sector, there is a phenomenal increase in the transmission and distribution losses in the various States during the recent years;

(b) if so, the details thereof during the 1997—2002, year-wise and State-wise; and

(c) the steps proposed to be taken to improve the situation in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) to (c) In the absence of 100% metering, it has been found that the Transmission & Distribution loss figures reported by the States are, at best estimates. A statement showing the State-wise T& D losses from 1992-93 to 1998-99 is at Statement-I (*See* below). The estimated transmission & distribution losses for various SEBs/EDs for the years 1999-2000 and 2000-2001 as per the Annual Report on the working of the SEBs and EDs brought out by the Planning Commission (June, 2001) are indicated in Statement II (*See* below).

It has been noted that reforming States, after detailed studies conducted into their operation, have reported higher T & D losses compared to figures before restructuring. The increase in T & D losses is apparently

because of lack of metering and over reporting of consumption especially for unmetered categories earlier by the vertically integrated State Electricity Boards.

Central Electricity Authority have issued Guidelines for reduction of transmission and distribution losses in Februrary, 2001. The steps taken to reduce the transmission and distribution losses include energy auditing, 100% metering, elimination of power theft and strengthening/upgradation of sub-transmission and distribution system. Comprehensive Guidelines have also been formulated by a Steerting Committee of Experts to streamline the sub-transmission and distribution systems and ensure more reliable figures of energy generated and supplied.

During the present financial year, under Accelerated Power Development and Reforms Programme (APDRP), sub-transmission and distribution projects worth Rs. 8484.27 crores have been sanctioned for 284 towns for which an Accelerated Power Development and Reforms Programme has been initiated. Under this programme 50% assistance is being provided for upgradation of the Sub-transmission and distribution and the remaining 50% as cash incentive to utilities to reduce cash losses.

Statement-I

Percentage Transformation, Transmission and Distribution losses (including commercial losses such as pilferage etc.) in SEBs/EDs

Region / SEB / ED	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
Northern Region:							
Haryana	26.78	25.00	30.80	32.39	32.77	34.04	35.33
Himachal Pradesh	19.51	18.31	18.21	16.09	18.02	20.13	26.11
Jammu & Kashmir	48.28	45.69	48.74	47.52	48.27	49.95	47.64
Punjab	19.24	19.37	16.70	18.49	19.10	18.94	18.11
Rajasthan	22.74	25.00	24.78	29.27	26.28	26.41	29.53
Uttar Pradesh	24.43	24.08	21.69	21.84	24.84	26.18	30.23
Chandigarh	26.21	27.27	28.44	33.72	21.88	22.38	22.48
DVB (Delhi)	23.56	31.79	34.56	48.57	49.08	47.91	43.71
Western Region:							
Gujarat	22.03	20.34	20.02	20.08	17.14	21.57	20.83
Madhya Pradesh	21.35	20.26	19.61	17.84	19.24	19.58	19.87
Maharashtra	17.83	16.22	16.33	16.95	16.55	18.75	18.41
D&N Haveli	17.98	12.64	11.35	09.31	08.80	12.90	15.37

Region / SEB / ED	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
Goa	21.85	24.50	26.87	26.06	23.50	31.02	30.40
Daman & Diu	15.67	22.34	16.30	12.80	08.15	14.69	21.83
Southern Region:							
Andhra Pradesh	19.88	19.91	17.95	19.34	33.19	32.14	34.09
Karnataka	19.55	19.55	19.41	19.06	18.73	19.31	30.45
Kerala	21.95	20.00	20.05	21.12	20.59	18.73	17.18
Tamil Nadu	17.50	17.18	17.11	16.19	17.65	17.29	17.22
Lakshadweep	18.72	16.99	17.84	17.23	15.11	15.70	12.78
Pondicherry	15.31	15.80	15.00	16.54	17.38	13.56	10.44
Eastern Region:							
Bihar	22.00	20.35	19.76	15.91	25.31	16.26	24.80
Orissa (GRIDCO)	25.25	22.43	23.03	24.17	50.15	50.10	36.72
Sikkim	22.55	22.60	21.22	16.47	29.24	22.87	12.44
West Bengal	24.87	20.82	21.51	19.26	18.01	19.67	23.73
A&N Island	23.62	23.71	22.38	19.25	19.15	20.59	20.03
North Eastern Region:							
Assam	21.41	22.44	24.18	26.91	25.97	27.32	38.72
Manipur	22.35	23.92	25.30	24.85	22.95	21.09	59.55
Meghalaya	11.79	18.03	18.47	12.55	19.75	12.28	19.66
Nagaland	27.26	33.45	36.12	35.17	26.81	29.79	26.52
Tripura	30.64	30.53	31.96	30.86	30.11	31.11	26.82
Arunachal Pradesh	32.32	42.04	45.30	37.12	32.62	34.10	30.60
Mizoram	29.04	31.89	29.76	25.18	34.35	46.84	44.79
All India (Utilities)	21.80	21.41	21.13	22.27	24.53	24.79	26.45

Statement-II

T and D Losses as Percentage of Availability

SEBs/EDs	1999-2000	2000-2001
Haryana	27.0	25.0
Himachal Pradesh	17.6	17.3
Jammu & Kashmir	47.0	46.5
Punjab	16.8	16.9
Rajasthan	29.5	22.0
Uttar Pradesh	25.5	25.0
Delhi	47.0	45.0
Gujarat	19.6	19.4
Madhya Pradesh	20.7	20.5

SEBs/EDs	1999-2000	2000-2001
Maharashtra	17.0	16.7
Goa	24.3	24.0
Andhra Pradesh	31.4	31.0
Karnataka	30.0	30.0
Kerala	21.1	20.8
Tamil Nadu	16.7	16.5
Pondicherry	13.3	13.0
Bihar	23.0	22.0
Orissa (GRIDCO)	6.0	6.0
Sikkim	20.0	20.0
West Bengal	28.0	28.0
Assam	37.0	35.0
Manipur	40.0	30.0
Meghalaya	20.4	20.3
Nagaland	28.5	29.2
Tripura	28.0	28.0
Arunachal Pradesh	20.5	18.0
Mizoram	42.5	40.0

*Note: The losses in Distribution Companies in Orissa are not included in the estimates.

Steps to meet energy requirement

196. SHRIMATI VANGA GEETHA: Will the Minister of POWER be pleased to state:

(a) the energy requirement for next five years in the country; and

(b) the policy and technological initiatives proposed to meet the requirements?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) and (b) The 16th Electric Power Survey (EPS) was constituted by the Central Electricity Authority in March, 1998 to estimate the electricity demand upto 2004-05 and also for the perspective period *i.e.* upto 2016-17. The Survey has estimated the all India energy requirement and peak demand for the terminal year of 10th Plan *i.e.* 2006-07 as under:

Energy Requirement	719.097 BUs
Peak Load	115705 MW